

PATENT

RS  
#  
2

1-23-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

MAY 28 2002

Technology Center 2600

In re Patent Application of :

Alper T. Erdogan, et al.

Group Art Unit: 2631

Examiner: *Unknown*

Application No.: 10/020,218

Filed: December 18, 2001

For: METHOD AND SYSTEM FOR ADAPTIVELY  
TRAINING TIME DOMAIN EQUALIZERS

**INFORMATION DISCLOSURE STATEMENT**

The Director of the United States Patents  
and Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully submit the following documents for the Examiner's consideration. A copy of Form PTO-1449 and copies of each of the listed documents are enclosed for the Examiner's convenience.

Applicants respectfully request that the Examiner considers the enclosed references and that the Examiner indicates that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per MPEP 609.

This Information Disclosure Statement is believed to be submitted before the mailing of a first Office Action. Accordingly, no fees are due. However, if any fees are

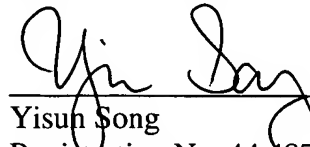
incurred upon the filing of this Information Disclosure Statement, the Commissioner is  
hereby authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS

Date: May 24, 2002

By:

  
Yisun Song  
Registration No. 44,487  
for Kevin T. Duncan  
Registration No. 41,495

1900 K Street, N.W.  
Washington, D.C. 20006-1109  
Telephone: (202) 955-1500  
Facsimile: (202) 778-2201

Please type a plus sign (+) inside this box



MAY 24 2002

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

### Complete if Known

Application Number	10/020,218
Filing Date	December 18, 2001
First Named Inventor	Alper T. Erodgan, et al.
Group Art Unit	2631
Examiner Name	Unassigned
Attorney Docket Number	56162.000359

Sheet 1 of 1

RECEIVED

MAY 28 2002

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	U1	5,285,474		Chow et al.	02/08/94	
	U2					
	U3					
	U4					
	U5					
	U6					
	U7					
	U8					
	U9					
	U10					

Technology Center 2600

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	P1	JOHN M. CIOFFI, et al, "A Data-Driven Multitone Echo Cancellor", IEEE Transactions On Communications, Vol. 42, No. 10, October 1994, pages 2853-2869.	
	P2	DAVID C. JONES, "Frequency Domain Echo Cancellation For Discrete Multitone Asymmetric Digital Subscriber Line Transceivers", IEEE Transactions On Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 1663-1672.	
	P3	MINNIE HO, et al, "Discrete Multitone Echo Cancellation", IEEE Transactions On Communications, Vol. 44, No. 7, July 1996, pages 817-825.	
	P4	DEBJYOTI PAL, et al, "A New Method Of Channel Shortening With Applications To Discrete Multi Tone (DMT) Systems", IEEE, 1998, pages 763-768	
	P5	PETER J.W. MELSA, "Impulse Response Shortening For Discrete Multitone Transceivers", IEEE Transactions On Communications, Vol. 44, No. 12, December 1996, pages 1662-1672.	
	P6	NAOFAL AL-DHAHIR, et al, "Optimum Finite-Length Equalization For Multicarrier Transceivers", IEEE Transactions On Communications, Vol. 44, No. 1, January 1996, pages 54-64.	
	P7		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.